

Notice of Allowability**Application No.**

10/823,612

Examiner

JESSICA PRINCE

Applicant(s)

KAJIWARA, HIROSHI

Art Unit

2482

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/22/2010.
2. ☒ The allowed claim(s) is/are 1, 7-10 and 24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 11/22/2010.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/JESSICA PRINCE/
Examiner, Art Unit 2482

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2482

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jonathan Berschadsky on 11/22/2010.

The application has been amended as follows:

In the claims:

Claims 12-23 are cancelled.

Claim 9 should read as follows:

A moving image decoding apparatus for decoding encoded moving image data, which is generated by decomposing each frame of moving image data into a plurality of subbands, and encoding a plurality of coefficients for each subband from upper to lower bits for respective bitplanes or sub-bitplanes using the bitplane encoding method in JPEG2000 for a predetermined unit, said apparatus comprising:

hardware means, including at least one processor configured to perform as:

a calculation unit operable to calculate, every decoding a video frame, a time difference ΔT between a decoding process time DT taken in a decoding process of the video frame and a target decoding time T for the decoding process and adding the calculated time difference ΔT to an accumulated time difference TT to update the accumulated time difference TT ;

a non-decoding pass determination unit operable to determine passes that are not to be decoded based on the updated accumulated time difference TT;

a pass decoding unit operable to reclaim the plurality of coefficients of the plurality of subbands from encoded data of passes other than the passes determined by said non-decoding pass determination unit; and

a subband composition unit operable to generate frame data by compositing the coefficients of the plurality of subbands reclaimed by said pass decoding unit,

wherein the non-decoding pass determination unit is further operable to:

manage a table that represents a correspondence between an index Q and a non-decoding pass number NDP(Sb) of a subband Sb,

decide a value of the index Q in accordance with a value of the updated accumulated difference time TT;

select the number NDP(Sb) for each subband Sb uniquely defined by the decided value of the index Q from the table, and

set lower passes for each subband Sb, the number of which is the selected NDP(Sb), as the passes that are not to be decoded.

Claim 10 should read as follows:

A non-transitory computer-readable medium, storing a program, in executable form, for causing an information processing apparatus to perform a moving image decoding method according to claim 1.

The following is an examiner's statement of reasons for allowance: The present invention as claimed involves a moving picture decoding method and apparatus for decoding encoded moving image data. The novel features include wherein the non-decoding pass determination step includes steps: managing a table that represents a correspondence between an index Q and a non-decoding pass number NDP(Sb) of a subband Sb, deciding a value of the index Q in accordance with a value of the updated accumulated difference time TT; selecting the number NDP(Sb) for each subband Sb uniquely defined by the decided value of the index Q from the table, and setting lower passes for each subband Sb, the number of which is the selected NDP(Sb), as the passes that are not to be decoded.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JESSICA PRINCE whose telephone number is (571)270-1821. The examiner can normally be reached on 7:30-5:00 EST Monday-Friday, Alt Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2482

/JESSICA PRINCE/
Examiner, Art Unit 2482
11/30/10